26. The method of claim 24, wherein said method comprises contacting said biological molecule with said O-methyltransferase and at least one additional polypeptide encoded by a C-1027 biosynthesis gene cluster open reading frame.

D3

27. The method of claim 24, wherein said method further comprises contacting said biological molecule with said O-methyltransferase and at least two additional polypeptides encoded by C-1027 biosynthesis gene cluster open reading frames.

D4

30. The method of claim 24, wherein said contacting is ex vivo.

D5

32. The method of claim 28, wherein said biological molecule is an exogenously supplied metabolite.

D6

40. The method of claim 24, wherein said method comprises contacting said biological molecule with at least substantially all of the polypeptides encoded by C-1027 biosynthesis gene cluster open reading frames and said method produces an enediyne or enediyne analogue.

42. The method of claim 41, wherein said biological molecule is a fatty acid.

43. The method of claim 42, wherein said biological molecule is additionally contacted with polypeptides encoded by ORF17, ORF20, ORF21, ORF29, ORF30, ORF32, ORF35, and ORF38.

D7

44. The method of claim 41, wherein said biological molecule is additionally contacted with polypeptides encoded by ORF 15, ORF 16, ORF3, ORF 14, and ORF 13.

45. The method of claim 44 wherein said biological molecule is additionally contacted with polypeptides encoded by ORF 4 and ORF 3.

These amendments are made without prejudice and are not to be construed as abandonment of the previously claimed subject matter or agreement with the Examiner's position. In accordance with the requirements of 37 C.F.R. § 1.121, a marked up version showing the changes to